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(54) Title: METHODS OF OBTAINING ISOFORM SPECIFIC EXPRESSION IN MAMMALIAN CELLS

(57) Abstract: A method is provided for isoform specific gene expression in a mammalian cell in the absence of other isoforms. The method uses RNAi to achieve the specific expression.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/85 C12N15/11 C12N15/12 C12N5/10 A61K31/713

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

MEDLINE, BIOSIS, EPO-Internal, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ELBASHIR S M ET AL: "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells." NATURE. ENGLAND 24 MAY 2001, vol. 411, no. 6836, 24 May 2001 (2001-05-24), pages 494-498, XP002213433 ISSN: 0028-0836 page 494 -page 498</p> <p style="text-align: center;">--- -/--</p>	1-23

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☐ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ELBASHIR SAYDA M ET AL: "RNA interference is mediated by 21- and 22-nucleotide RNAs" GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 15, no. 2, 15 January 2001 (2001-01-15), pages 188-200, XP002204651 ISSN: 0890-9369 page 188 -page 200 ----	1-23
A	HARBORTH J ET AL: "Identification of essential genes in cultured mammalian cells using small interfering RNAs." JOURNAL OF CELL SCIENCE. ENGLAND DEC 2001, vol. 114, no. Pt 24, December 2001 (2001-12), pages 4557-4565, XP002247988 ISSN: 0021-9533 page 4557 -page 4565 ----	1-23
A	HARBORTH J ET AL: "RNAI BASED GENE SILENCING IN MAMMALIAN TISSUE CULTURE CELLS: A KEY PROCEDURE FOR FUNCTIONAL GENE ANALYSIS" MOLECULAR BIOLOGY OF THE CELL, BETHESDA, MD, US, vol. 12, no. SUPPL, 8 December 2001 (2001-12-08), pages 520A-521A, AN2866, XP008005217 ISSN: 1059-1524 page 520A -page 521A ----	1-23
A	KEIPER BRETT D ET AL: "Functional characterization of five eIF4E isoforms in Caenorhabditis elegans." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 14, 7 April 2000 (2000-04-07), pages 10590-10596, XP002247989 ISSN: 0021-9258 page 10590 -page 10596 -----	1-23